

Fig. 1

SINGLE MEDIA

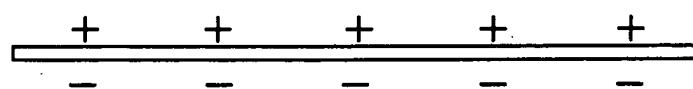


Fig. 2

DOUBLE LAYER MEDIA

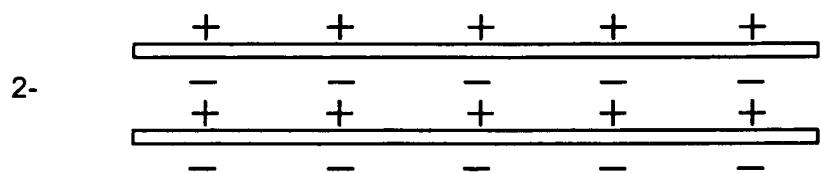
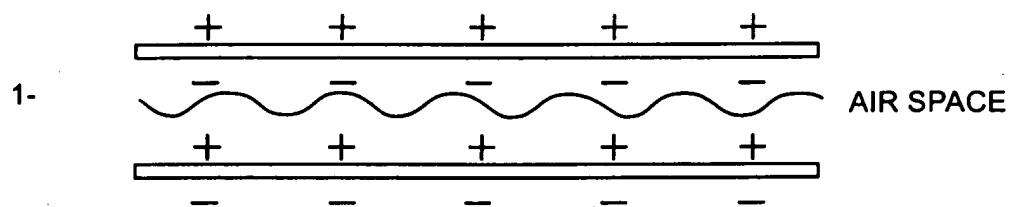


Fig. 3

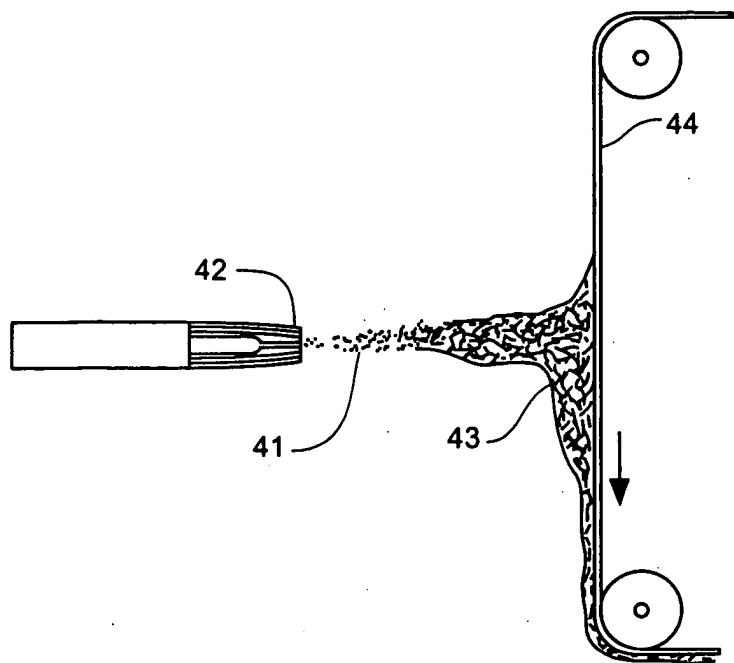


Fig. 4a

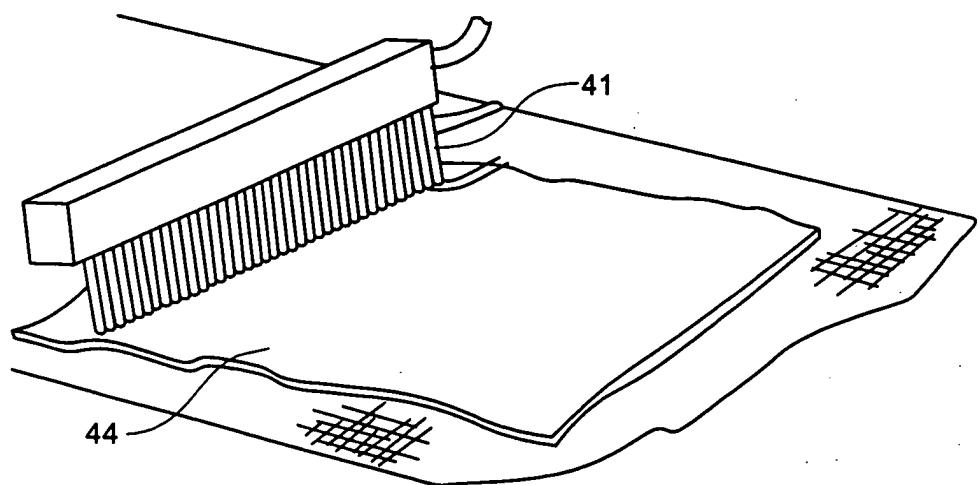


Fig. 4b

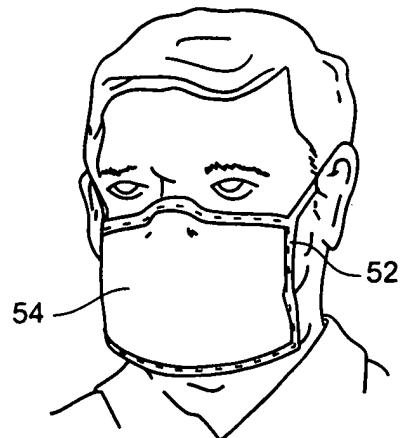


Fig. 5a

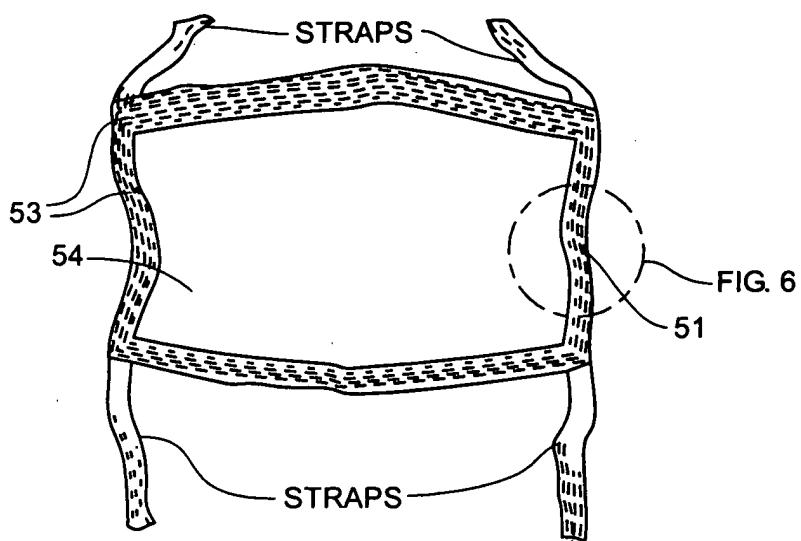


Fig. 5b

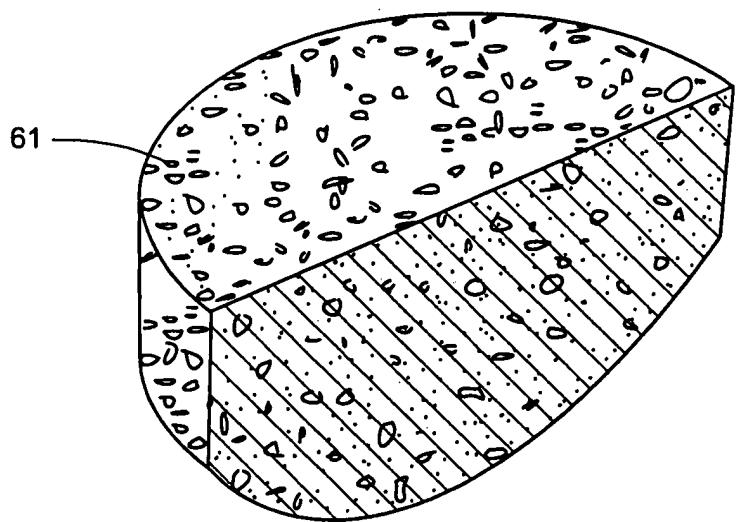


Fig. 6

EXHIBIT A

**Experiment No AF276: Biocidal air filtration membrane project:
 Performance of different filtration membrane against BG spores
 for 30, 60, 120, 180, 240, 300 and 360 minutes of filtration**

BG		60 min		7.5 LPM	
DL	CFU total	DL	CFU total	DL	% Reduction
2M03-01-75C+	19.5	0.00E+00	100.00000%	21.0	0.00E+00
2M03-01-75C+	21.5	0.00E+00	100.00000%	20.5	0.00E+00
Transweb	17.5	1.75E+01	99.89471%	20.0	0.00E+00
C+	21.5	3.31E+05	0.00000%	18.5	1.49E+08

BG		180 min		7.5 LPM	
DL	CFU total	DL	CFU total	DL	% Reduction
2M03-01-75C+	16.0	3.20E+01	99.99924%		
2M03-01-75C+	17.0	0.00E+00	100.00000%		
Transweb	15.0	0.00E+00	100.00000%		
C+	18.5	4.20E+06	0.00000%		

BG		300 min		7.5 LPM	
DL	CFU total	DL	CFU total	DL	% Reduction
2M03-01-75C+	13.5	2.70E+01	99.99884%		
2M03-01-75C+	16.0	0.00E+00	100.00000%		
Transweb	9.0	0.00E+00	100.00000%		
C+	9.0	2.32E+06	0.00000%		

BG		240 min		7.5 LPM	
DL	CFU total	DL	CFU total	DL	% Reduction
2M03-01-75C+	19.0	0.00E+00	100.00000%		
2M03-01-75C+	16.0	0.00E+00	100.00000%		
Transweb	11.0	0.00E+00	100.00000%		
C+	13.0	4.21E+06	0.00000%		

EXHIBIT A

**Experiment No AF276: Biocidal air filtration membrane project:
Performance of different filtration membrane against BG spores
for 30, 60, 120, 180, 240, 300 and 360 minutes of filtration**

	DL	CFU total	% Reduction
2M03-01-75C+	9.0	0.00E+00	100.00000%
2M03-01-75C+	16.0	4.80E+01	99.99923%
Transweb	14.0	0.00E+00	100.00000%
C+	11.0	6.20E+06	0.00000%

For BG tests
Challenge microorganism: BG
Aerosol generated by: 6 jets Modified Collision Nebulizer
pre-vaporisation: 30 min
Air flow velocity : 7.5 LPM
Nebulizer air flow : 40 PSI
Filtration time : 30 minutes
Collection fluid : 5 ml of PBS with 0.001% antifoam A
Sampling on TSA

2M03-01-75C+	Non-woven + Triosyn + Electrostatic charge
Transweb	Electrostatic non-woven without Triosyn
DL	Detection Level

EXHIBIT B

Biocidal air filtration membrane project:
Performance of different filtration membrane against MS2 viruses
for 60, 120, 180, 240, 300 and 360 minutes of filtration

Replacement Sheet 9/11
Appln. No. 10/528,006
Inventor: Pierre J. Messier, et al.
Atty Docket No.: 102785-337-NP2
Title: Facemask with Filtering Closure

MS2	
60 min	
7.5 LPM	
DL	PFU total
2M03-01-92C+	4.2
Transweb	4.3
C+	4.0

MS2	
120 min	
7.5 LPM	
DL	PFU total
2M03-01-92C+	4.0
Transweb	2.2
C+	4.1

MS2	
180 min	
7.5 LPM	
DL	PFU total
2M03-01-92C+	4.0
Transweb	3.5
C+	3.8

MS2	
240 min	
7.5 LPM	
DL	PFU total
2M03-01-92C+	3.9
Transweb	3.9
C+	3.9

EXHIBIT B

**Biocidal air filtration membrane project:
Performance of different filtration membrane against MS2 viruses
for 60, 120, 180, 240, 300 and 360 minutes of filtration**

MS2			
	360 min	7.5 LPM	
2M03-01-92C+	3.8	0.00E+00	100.000000%
Transweb	3.9	4.62E+05	97.47541%
C+	3.9	1.83E+07	0.000000%

For MS2 tests
Challenge microorganism: **MS2**
6 Jets Modified Collision
Aerosol generated by: **Nebulizer**
pre-vaporisation: 30 min
Air flow velocity : 7.5 LPM
Nebulizer air flow : 40 PSI
Filtration time : 30 min, 1, 2, 3, 4, 5 and 6 hours
Collection fluid : 5 ml of PBS with 0.001% antifreeze A
Sampling on MS2 media by single layer soft agar

2M03-01-92C+ :	Non woven + Triosyn + Electrostatic Charge
Transweb :	Electrostatic Non Woven without Triosyn
DL :	Detection Level

Replacement Sheet 10/11
Appln. No. 10/528,006
Inventor: Pierre J. Messier, et al.
Atty Docket No.: 102785-337-NP2
Title: Facemask with Filtering Closure

EXHIBIT B

**Experiment No AF270: Biocidal air filtration membrane project:
Performance of different filtration membrane against MS2 virus
for 30 minutes of filtration**

MS2	
30 min	
7.5 LPM	
	DL
	PFU total
	% Reduction
M03-01-69-C+	4.3
	0.00E+00
	100.00000%
M03-01-81-C+	4.2
	0.00E+00
	100.00000%
Transweb	4.0
	2.48E+02
	99.99757%
C+	3.9
	1.02E+07
	0.00000%

For MS2 tests
Challenge microorganism: **MS2**
Aerosol generated by: **6 jets Modified Collision**
pre-vapourisation: 30 min
Air flow velocity : 7.5 LPM
Nebulizer air flow : 40 PSI
Filtration time: 30 minutes
Collection fluid : 5 ml of PBS with 0.001% antifoam A
Sampling on MS2 media by single layer soft agar

M03-01-69-C+ Transweb DL	Non woven + Triosyn + Electrostatic Charge Electrostatic non-woven without Triosyn Detection Level
--------------------------------	--